

**CATALYST AND PROCESS FOR SELECTIVE HYDROGENATION****ABSTRACT**

An selective hydrogenation catalyst composition comprises a rhodium component present in an amount such that the catalyst composition comprises less than 3.0% of rhodium by weight of the total catalyst composition; and an indium component present in an amount such that the catalyst composition comprises at least 0.3% and less than 5.0% of indium by weight of the total catalyst composition.